TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-04-15-03**	**Date: 19-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18	
Source of Sample	:	Hot Mix Plant, Bangalore	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-04-17	
Sample ID No	:	2017-04-15-03/01	
Type of Mix	:	DBM (Dense Bituminous Mecadam)	
Date of test	:	15-04-17	

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	10.76	10.84	9KN(min)
2	Marshal flow at 60°C, mm	3.75	3.37	2-4
3	Percent air Voids	4.54	4.18	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.09	14.33	13-15
5	Percent Voids filled with Bitumen(VFB %)	73.11	72.76	65-75
6	Density, g/cc	2.34	2.35	–

Note:-
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Prepared By:
Harshitha

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-04-15-03** **Date: 19-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-17
Sample ID No	:	2017-04-15-03/01
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of test	:	15-04-17
Weight of Sample(gm)	:	5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	241	241	4.82	95.2	90-100
19	757	998	19.96	80.0	71-95
13.2	1112	2110	42.20	57.8	56-80
4.75	931	3041	60.82	39.2	38-54
2.36	487	3528	70.56	29.4	28-42
0.3	894	4422	88.44	11.6	7-21
0.075	243	4665	93.30	6.7	2-8
PAN	335	5000	0.00	0	0

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-27-04** **Date: 31-03-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Project Name	:	Asphalting to roads and improvements to drains in Attur layout 6th, 7th, 8th & 9th Main road of Attur ward no.03
Agency	:	Technical Manager, KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-04-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	189	189	3.78	96.22	90-100
3	10 mm	2234	2423	48.46	51.54	25-55
4	4.75 mm	2397	4820	96.4	3.6	0-10
5	Pan	180	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-27-04** **Date: 31-03-2017**

Sample ID No : 2017-03-27-04-01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.19	–
7	Aggregate crushing Value(%)	23.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-03-02-02 **Date: 31-03-2017**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bnagalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bnagalore.

Project Name : Asphalting to roads and improvements to drains in Attur layout 6th, 7th, 8th & 9th Main road of Attur ward no.03

Agency : Technical Manager, KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/143/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-03-17

Sample ID No : 2017-03-02-02-01

Sample Type : Zuari 53 grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 03-03-2017 to 31-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.1	–
2	Finess by Air permeablity method (m2/kg, Min)	292	225m^2/kg, Min
3	Density (gm/cc)	3.2	–
4	Standard Consistency (%)	28.5	Not specified
5	Initial Setting time	235 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-03-02-02**

Sample ID No : **2017-03-02-02-01**

Date: 31-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	320 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	26.5N/mm^2	Not less than 27 N/mm^2
	7 Days	40.5N/mm^2	Not less than 37 N/mm^2
	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-27-04** **Date: 31-03-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Project Name	:	Asphalting to roads and improvements to drains in Attur layout 6th, 7th, 8th & 9th Main road of Attur ward no.03
Agency	:	Technical Manager, KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-04-01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0	100	100
2	40 mm	198	198	3.96	96.0	90-100
3	20 mm	1780	1978	39.56	60.4	30-70
4	10 mm	1600	3578	71.56	28.4	10-35
5	4.75 mm	1320	4898	97.96	2.0	0-5
6	Pan	102	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-27-04** **Date: 31-03-2017**

Sample ID No : 2017-03-27-04-01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.23	–

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-27-04** **Date: 31-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP,
Address	:	Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Project Name	:	Asphalting to roads and improvements to drains in Attur layout 6th, 7th, 8th & 9th Main road of Attur ward no.03
Agency	:	Technical Manager, KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-04-02
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - I, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	31	58	5.8	94.2	60-95	75-100	85-100	95-100
4	1.18 mm	84	142	14.2	85.8	30-70	55-90	75-100	90-100
5	600 micron	279	421	42.1	57.9	15-34	35-59	60-79	80-100
6	300 micron	305	726	72.6	27.4	5-20	8-30	12-40	15-50
7	150 micron	232	958	95.8	4.2	0-10	0-10	0-10	0-15
8	Pan	42	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-27-04** **Date: 31-03-17**

Sample ID No : 2017-03-27-04-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.35	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron	4.90	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-04-05-04** **Date: 08-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Project Name	:	Asphalting to roads and improvements to drains in Attur layout 6th, 7th, 8th & 9th Main road of Attur ward no.03
Agency	:	Technical Manager, KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-04-17
Sample ID No	:	2017-04-05-04-01
Customer ID	:	Drain Concrete (1:1.5:3)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete (1:1.5:3)	M20	31/03/2017	07/04/2017	150.11 X 150.29 X 150.33	22560	8.220	367.7	16.3	16.7
2	Drain Concrete (1:1.5:3)	M20	31/03/2017	07/04/2017	150.17 X 150.14 X 150.20	22547	8.290	376.5	16.7	
3	Drain Concrete (1:1.5:3)	M20	31/03/2017	07/04/2017	150.22 X 150.31 X 150.10	22580	8.330	388.4	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-04-05-04** **Date: 28-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Project Name	:	Asphalting to roads and improvements to drains in Attur layout 6th, 7th, 8th & 9th Main road of Attur ward no.03
Agency	:	Technical Manager, KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-04-17
Sample ID No	:	2017-04-05-04-02
Customer ID	:	Drain Concrete (1:1.5:3)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete (1:1.5:3)	M20	31/03/2017	28/04/2017	150.31 X 150.61 X 150.42	22638	8.330	500.3	22.1	22.6
2	Drain Concrete (1:1.5:3)	M20	31/03/2017	28/04/2017	150.29 X 150.27 X 150.26	22584	8.270	512.7	22.7	
3	Drain Concrete (1:1.5:3)	M20	31/03/2017	28/04/2017	150.18 X 150.10 X 150.41	22542	8.290	516.2	22.9	

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-03-27-04** **Date: 02-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Project Name	:	Asphalting to roads and improvements to drains in Attur layout 6th, 7th, 8th & 9th Main road of Attur ward no.03
Agency	:	Technical Manager, KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-04-06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	27/03/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.51	250.48	1.116	17788	275.9	15.5	15.5	19.4
2	Cover Slab-2	150.49	250.52	1.122	17784	272.3	15.3	15.3	19.1
3	Cover Slab-3	150.50	250.51	1.118	17786	279.5	15.7	15.7	19.6

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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-27-04**	**Date: 01-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bnagalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bnagalore.	
Project Name	:	Asphalting to roads and improvements to drains in Attur layout 6th, 7th, 8th & 9th Main road of Attur ward no.03	
Agency	:	Technical Manager, KRIDL, BBMP, Bangalore.	
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	27-03-17	
Sample ID No	:	2017-03-27-04-03	
Sample Type	:	Indus Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	27-03-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	8mm	0.393	526	614	18.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	8mm	Satisfactory	Satisfactory

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

Prepared By:
Harshitha

AE-03

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

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